Bo Huang

List of Publications by Year
in descending order

236 papers	11,722 citations	23567 58 h-index	34986 98 g-index
238 all docs	238 docs citations	238 times ranked	9706 citing authors

#	Article	IF	Citations
1	Geographically and temporally weighted regression for modeling spatio-temporal variation in house prices. International Journal of Geographical Information Science, 2010, 24, 383-401.	4.8	781
2	Urban land-use mapping using a deep convolutional neural network with high spatial resolution multispectral remote sensing imagery. Remote Sensing of Environment, 2018, 214, 73-86.	11.0	389
3	Spatiotemporal Reflectance Fusion via Sparse Representation. IEEE Transactions on Geoscience and Remote Sensing, 2012, 50, 3707-3716.	6.3	311
4	Modeling and analysis of lake water storage changes on the Tibetan Plateau using multi-mission satellite data. Remote Sensing of Environment, 2013, 135, 25-35.	11.0	305
5	Satellite-based mapping of daily high-resolution ground PM2.5 in China via space-time regression modeling. Remote Sensing of Environment, 2018, 206, 72-83.	11.0	251
6	Landslide susceptibility mapping based on rough set theory and support vector machines: A case of the Three Gorges area, China. Geomorphology, 2014, 204, 287-301.	2.6	219
7	Spatiotemporal Satellite Image Fusion Using Deep Convolutional Neural Networks. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, 11, 821-829.	4.9	219
8	Accelerated lake expansion on the Tibetan Plateau in the 2000s: Induced by glacial melting or other processes?. Water Resources Research, 2014, 50, 3170-3186.	4.2	206
9	Using multi-source geospatial big data to identify the structure of polycentric cities. Remote Sensing of Environment, 2017, 202, 210-221.	11.0	203
10	A MAP Approach for Joint Motion Estimation, Segmentation, and Super Resolution. IEEE Transactions on Image Processing, 2007, 16, 479-490.	9.8	201
11	Sustainable land use optimization using Boundary-based Fast Genetic Algorithm. Computers, Environment and Urban Systems, 2012, 36, 257-269.	7.1	201
12	Spatiotemporal Satellite Image Fusion Through One-Pair Image Learning. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1883-1896.	6.3	187
13	A pixel shape index coupled with spectral information for classification of high spatial resolution remotely sensed imagery. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 2950-2961.	6.3	186
14	Spatial multi-objective land use optimization: extensions to the non-dominated sorting genetic algorithm-II. International Journal of Geographical Information Science, 2011, 25, 1949-1969.	4.8	176
15	Spatial and Spectral Image Fusion Using Sparse Matrix Factorization. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1693-1704.	6.3	173
16	Dimensionality Reduction Based on Clonal Selection for Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 4172-4186.	6.3	164
17	Estimating CO2 (carbon dioxide) emissions at urban scales by DMSP/OLS (Defense Meteorological) Tj ETQq1 1 0.784314 rgBT /Overlo and a case study for China. Energy, 2014, 71, 468-478.	8.8	156
18	Comparison of Spatiotemporal Fusion Models: A Review. Remote Sensing, 2015, 7, 1798-1835.	4.0	153

#	Article	IF	Citations
19	Spatiotemporal analysis of rural–urban land conversion. International Journal of Geographical Information Science, 2009, 23, 379-398.	4.8	149
20	Multi-source remotely sensed data fusion for improving land cover classification. ISPRS Journal of Photogrammetry and Remote Sensing, 2017, 124, 27-39.	11.1	133
21	An unsupervised artificial immune classifier for multi/hyperspectral remote sensing imagery. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 420-431.	6.3	132
22	Remote sensing of alpine lake water environment changes on the Tibetan Plateau and surroundings: A review. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 92, 26-37.	11.1	130
23	A geographically and temporally weighted autoregressive model with application to housing prices. International Journal of Geographical Information Science, 2014, 28, 1186-1204.	4.8	127
24	An integration of GIS, virtual reality and the Internet for visualization, analysis and exploration of spatial data. International Journal of Geographical Information Science, 2001, 15, 439-456.	4.8	125
25	Dynamic assessments of population exposure to urban greenspace using multi-source big data. Science of the Total Environment, 2018, 634, 1315-1325.	8.0	122
26	Dynamic assessment of PM2.5 exposure and health risk using remote sensing and geo-spatial big data. Environmental Pollution, 2019, 253, 288-296.	7.5	120
27	Spatio-temporal variation and impact factors analysis of satellite-based aerosol optical depth over China from 2002 to 2015. Atmospheric Environment, 2016, 129, 79-90.	4.1	118
28	Integrated vaccination and physical distancing interventions to prevent future COVID-19 waves in Chinese cities. Nature Human Behaviour, 2021, 5, 695-705.	12.0	111
29	Satellite-based high-resolution PM2.5 estimation over the Beijing-Tianjin-Hebei region of China using an improved geographically and temporally weighted regression model. Environmental Pollution, 2018, 236, 1027-1037.	7.5	110
30	Convergence of per capita carbon dioxide emissions in urban China: A spatio-temporal perspective. Applied Geography, 2013, 40, 21-29.	3.7	106
31	A multi-objective optimization approach for health-care facility location-allocation problems in highly developed cities such as Hong Kong. Computers, Environment and Urban Systems, 2016, 59, 220-230.	7.1	104
32	Spatiotemporal Variation in Surface Urban Heat Island Intensity and Associated Determinants across Major Chinese Cities. Remote Sensing, 2015, 7, 3670-3689.	4.0	101
33	Generating High Spatiotemporal Resolution Land Surface Temperature for Urban Heat Island Monitoring. IEEE Geoscience and Remote Sensing Letters, 2013, 10, 1011-1015.	3.1	100
34	Modeling the spatio-temporal heterogeneity in the PM10-PM2.5 relationship. Atmospheric Environment, 2015, 102, 176-182.	4.1	97
35	The influence of urban form on surface urban heat island and its planning implications: Evidence from 1288 urban clusters in China. Sustainable Cities and Society, 2021, 71, 102987.	10.4	97
36	Dynamic monitoring of the Poyang Lake wetland by integrating Landsat and MODIS observations. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 139, 75-87.	11.1	95

#	Article	IF	Citations
37	Seasonal and abrupt changes in the water level of closed lakes on the Tibetan Plateau and implications for climate impacts. Journal of Hydrology, 2014, 514, 131-144.	5.4	94
38	Optimal Siting of Fire Stations Using GIS and ANT Algorithm. Journal of Computing in Civil Engineering, 2006, 20, 361-369.	4.7	92
39	Spatially and Temporally Weighted Regression: A Novel Method to Produce Continuous Cloud-Free Landsat Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 27-37.	6.3	92
40	A robust adaptive spatial and temporal image fusion model for complex land surface changes. Remote Sensing of Environment, 2018, 208, 42-62.	11.0	91
41	The Fisher Kernel Coding Framework for High Spatial Resolution Scene Classification. Remote Sensing, 2016, 8, 157.	4.0	86
42	Response of urban heat island to future urban expansion over the Beijing–Tianjin–Hebei metropolitan area. Applied Geography, 2016, 70, 26-36.	3.7	86
43	Unified fusion of remote-sensing imagery: generating simultaneously high-resolution synthetic spatial–temporal–spectral earth observations. Remote Sensing Letters, 2013, 4, 561-569.	1.4	85
44	GIS and genetic algorithms for HAZMAT route planning with security considerations. International Journal of Geographical Information Science, 2004, 18, 769-787.	4.8	84
45	A shortest path algorithm with novel heuristics for dynamic transportation networks. International Journal of Geographical Information Science, 2007, 21, 625-644.	4.8	83
46	Exploring the impact of high speed railways on the spatial redistribution of economic activities - Yangtze River Delta urban agglomeration as a case study. Journal of Transport Geography, 2016, 57, 194-206.	5.0	80
47	Transfer Learning With Fully Pretrained Deep Convolution Networks for Land-Use Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 1436-1440.	3.1	79
48	Rapid growth in nitrogen dioxide pollution over Western China, 2005–2013. Atmospheric Chemistry and Physics, 2016, 16, 6207-6221.	4.9	76
49	Classification of High Spatial Resolution Imagery Using Improved Gaussian Markov Random-Field-Based Texture Features. IEEE Transactions on Geoscience and Remote Sensing, 2007, 45, 1458-1468.	6.3	74
50	Modeling urban vertical growth using cellular automata–Guangzhou as a case study. Applied Geography, 2014, 53, 172-186.	3.7	74
51	Verification, improvement and application of aerosol optical depths in China Part 1: Inter-comparison of NPP-VIIRS and Aqua-MODIS. Atmospheric Environment, 2018, 175, 221-233.	4.1	72
52	Super-Resolution-Guided Progressive Pansharpening Based on a Deep Convolutional Neural Network. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5206-5220.	6.3	69
53	Real-Time Estimation of Population Exposure to PM2.5 Using Mobile- and Station-Based Big Data. International Journal of Environmental Research and Public Health, 2018, 15, 573.	2.6	67
54	Spatio-temporal reflectance fusion via unmixing: accounting for both phenological and land-cover changes. International Journal of Remote Sensing, 2014, 35, 6213-6233.	2.9	65

#	Article	IF	Citations
55	Rural settlement restructuring based on analysis of the peasant household symbiotic system at village level: A Case Study of Fengsi Village in Chongqing, China. Journal of Rural Studies, 2016, 47, 485-495.	4.7	64
56	MODIS 3Âkm and 10Âkm aerosol optical depth for China: Evaluation and comparison. Atmospheric Environment, 2017, 153, 150-162.	4.1	64
57	Land-Use-Change Modeling Using Unbalanced Support-Vector Machines. Environment and Planning B: Planning and Design, 2009, 36, 398-416.	1.7	63
58	Shadow Detection and Reconstruction in High-Resolution Satellite Images via Morphological Filtering and Example-Based Learning. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 2545-2554.	6.3	63
59	Effects of land use and transportation on carbon sources and carbon sinks: A case study in Shenzhen, China. Landscape and Urban Planning, 2014, 122, 175-185.	7.5	62
60	Cloud Removal From Optical Satellite Imagery With SAR Imagery Using Sparse Representation. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1046-1050.	3.1	62
61	Long-Term Exposure to Ambient Fine Particulate Matter (PM2.5) and Lung Function in Children, Adolescents, and Young Adults: A Longitudinal Cohort Study. Environmental Health Perspectives, 2019, 127, 127008.	6.0	62
62	Evaluating and characterizing urban vibrancy using spatial big data: Shanghai as a case study. Environment and Planning B: Urban Analytics and City Science, 2020, 47, 1543-1559.	2.0	60
63	Improving the Spatial Resolution of Landsat TM/ETM+ Through Fusion With SPOT5 Images via Learning-Based Super-Resolution. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1195-1204.	6.3	59
64	A New Look at Image Fusion Methods from a Bayesian Perspective. Remote Sensing, 2015, 7, 6828-6861.	4.0	58
65	An Error-Bound-Regularized Sparse Coding for Spatiotemporal Reflectance Fusion. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 6791-6803.	6.3	58
66	A generalization of spatial and temporal fusion methods for remotely sensed surface parameters. International Journal of Remote Sensing, 2015, 36, 4411-4445.	2.9	56
67	Can mountain glacier melting explains the GRACE-observed mass loss in the southeast Tibetan Plateau: From a climate perspective?. Global and Planetary Change, 2015, 124, 1-9.	3.5	56
68	GeoVR: a web-based tool for virtual reality presentation from 2D GIS data. Computers and Geosciences, 1999, 25, 1167-1175.	4.2	50
69	A level set method for oil slick segmentation in SAR images. International Journal of Remote Sensing, 2005, 26, 1145-1156.	2.9	50
70	Support vector machines for urban growth modeling. GeoInformatica, 2010, 14, 83-99.	2.7	49
71	Interâ€annual changes of alpine inland lake water storage on the Tibetan Plateau: Detection and analysis by integrating satellite altimetry and optical imagery. Hydrological Processes, 2014, 28, 2411-2418.	2.6	49
72	DE-Net: Deep Encoding Network for Building Extraction from High-Resolution Remote Sensing Imagery. Remote Sensing, 2019, 11, 2380.	4.0	49

#	Article	IF	Citations
73	Seeking the Pareto front for multiobjective spatial optimization problems. International Journal of Geographical Information Science, 2008, 22, 507-526.	4.8	48
74	Saturated magnetization and glass forming ability of soft magnetic Fe-based metallic glasses. Intermetallics, 2017, 84, 74-81.	3.9	48
75	Air pollution exposure associates with increased risk of neonatal jaundice. Nature Communications, 2019, 10, 3741.	12.8	48
76	Big spatial data for urban and environmental sustainability. Geo-Spatial Information Science, 2020, 23, 125-140.	5.3	48
77	A Spatio–Temporal Pixel-Swapping Algorithm for Subpixel Land Cover Mapping. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 474-478.	3.1	47
78	Two ellipse-based pruning methods for group nearest neighbor queries. , 2005, , .		46
79	Spatial and Temporal Image Fusion via Regularized Spatial Unmixing. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1362-1366.	3.1	45
80	AVTOP: a full integration of TOPMODEL into GIS. Environmental Modelling and Software, 2002, 17, 261-268.	4.5	44
81	A Simple and Universal Aerosol Retrieval Algorithm for Landsat Series Images Over Complex Surfaces. Journal of Geophysical Research D: Atmospheres, 2017, 122, 13,338.	3.3	44
82	Dynamic Changes in Long-Term Exposure to Ambient Particulate Matter and Incidence of Hypertension in Adults. Hypertension, 2019, 74, 669-677.	2.7	42
83	A GIS supported Ant algorithm for the linear feature covering problem with distance constraints. Decision Support Systems, 2006, 42, 1063-1075.	5.9	41
84	Heterogeneous change patterns of water level for inland lakes in High Mountain Asia derived from multi‐mission satellite altimetry. Hydrological Processes, 2015, 29, 2769-2781.	2.6	41
85	How do people in different places experience different levels of air pollution? Using worldwide Chinese as a lens. Environmental Pollution, 2018, 238, 874-883.	7.5	39
86	Fine-scale mapping of an evidence-based heat health risk index for high-density cities: Hong Kong as a case study. Science of the Total Environment, 2020, 718, 137226.	8.0	39
87	A Globally Statistical Active Contour Model for Segmentation of Oil Slick in SAR Imagery. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2402-2409.	4.9	38
88	Calibrating a cellular automata model for understanding rural–urban land conversion: a Pareto front-based multi-objective optimization approach. International Journal of Geographical Information Science, 2014, 28, 1028-1046.	4.8	37
89	Spatio-spectral fusion of satellite images based on dictionary-pair learning. Information Fusion, 2014, 18, 148-160.	19.1	37
90	Spatiotemporal mapping and assessment of daily ground NO2 concentrations in China using high-resolution TROPOMI retrievals. Environmental Pollution, 2021, 273, 116456.	7.5	37

#	Article	IF	Citations
91	XML application schema matching using similarity measure and relaxation labeling. Information Sciences, 2005, 169, 27-46.	6.9	36
92	Shaping the Relationship Between Economic Development and Carbon Dioxide Emissions at the Local Level: Evidence from Spatial Econometric Models. Environmental and Resource Economics, 2018, 71, 127-156.	3.2	36
93	Density fluctuations with fractal order in metallic glasses detected by synchrotron X-ray nano-computed tomography. Acta Materialia, 2018, 155, 69-79.	7.9	35
94	Spatiotemporal assessment of PM2.5 concentrations and exposure in China from 2013 to 2017 using satellite-derived data. Journal of Cleaner Production, 2021, 286, 124965.	9.3	35
95	Assessing the coordination between economic growth and urban climate change in China from 2000 to 2015. Science of the Total Environment, 2020, 732, 139283.	8.0	35
96	Urban Change Detection Based on Coherence and Intensity Characteristics of SAR Imagery. Photogrammetric Engineering and Remote Sensing, 2008, 74, 999-1006.	0.6	34
97	Spatiotemporal Influence of Urban Environment on Taxi Ridership Using Geographically and Temporally Weighted Regression. ISPRS International Journal of Geo-Information, 2019, 8, 23.	2.9	34
98	Geographically and temporally neural network weighted regression for modeling spatiotemporal non-stationary relationships. International Journal of Geographical Information Science, 2021, 35, 582-608.	4.8	34
99	A genetic algorithm for multiobjective dangerous goods route planning. International Journal of Geographical Information Science, 2013, 27, 1073-1089.	4.8	32
100	Land Use Optimization for a Rapidly Urbanizing City with Regard to Local Climate Change: Shenzhen as a Case Study. Journal of the Urban Planning and Development Division, ASCE, 2015, 141, .	1.7	32
101	A hierarchical spatiotemporal adaptive fusion model using one image pair. International Journal of Digital Earth, 2017, 10, 639-655.	3.9	32
102	Impacts of the evolving urban development on intra-urban surface thermal environment: Evidence from 323 Chinese cities. Science of the Total Environment, 2021, 771, 144810.	8.0	32
103	Reconstructing Seasonal Variation of Landsat Vegetation Index Related to Leaf Area Index by Fusing with MODIS Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 950-960.	4.9	31
104	A Rigorously-Weighted Spatiotemporal Fusion Model with Uncertainty Analysis. Remote Sensing, 2017, 9, 990.	4.0	31
105	Himawari-8 Aerosol Optical Depth (AOD) Retrieval Using a Deep Neural Network Trained Using AERONET Observations. Remote Sensing, 2020, 12, 4125.	4.0	31
106	Modeling the Spatiotemporal Association Between COVIDâ€19 Transmission and Population Mobility Using Geographically and Temporally Weighted Regression. GeoHealth, 2021, 5, e2021GH000402.	4.0	31
107	Sustainable Land-Use Planning for a Downtown Lake Area in Central China: Multiobjective Optimization Approach Aided by Urban Growth Modeling. Journal of the Urban Planning and Development Division, ASCE, 2014, 140, .	1.7	30
108	Bilevel Programming Approach to Optimizing a Logistic Distribution Network with Balancing Requirements. Transportation Research Record, 2004, 1894, 188-197.	1.9	29

#	Article	IF	Citations
109	Bi-level GA and GIS for Multi-objective TSP Route Planning. Transportation Planning and Technology, 2006, 29, 105-124.	2.0	29
110	Prediction for spatio-temporal models with autoregression in errors. Journal of Nonparametric Statistics, 2012, 24, 217-244.	0.9	29
111	Local Retail Food Environment and Consumption of Fruit and Vegetable among Adults in Hong Kong. International Journal of Environmental Research and Public Health, 2018, 15, 2247.	2.6	29
112	SQL/SDA: a query language for supporting spatial data analysis and its Web-based implementation. IEEE Transactions on Knowledge and Data Engineering, 2001, 13, 671-682.	5.7	28
113	Web-based dynamic and interactive environmental visualization. Computers, Environment and Urban Systems, 2003, 27, 623-636.	7.1	28
114	A Java/CGI approach to developing a geographic virtual reality toolkit on the Internet. Computers and Geosciences, 2002, 28, 13-19.	4.2	27
115	Spatio-temporal information integration in XML. Future Generation Computer Systems, 2004, 20, 1157-1170.	7.5	27
116	Making Fe-Si-B amorphous powders as an effective catalyst for dye degradation by high-energy ultrasonic vibration. Materials and Design, 2020, 194, 108876.	7.0	27
117	GIS coupled with traffic simulation and optimization for incident response. Computers, Environment and Urban Systems, 2007, 31, 116-132.	7.1	26
118	Spatial Change Optimization. Photogrammetric Engineering and Remote Sensing, 2009, 75, 1015-1022.	0.6	26
119	Investigation of the Effects of Anthropogenic Pollution on Typhoon Precipitation and Microphysical Processes Using WRF-Chem. Journals of the Atmospheric Sciences, 2016, 73, 1593-1610.	1.7	26
120	Characterizing Tree Species of a Tropical Wetland in Southern China at the Individual Tree Level Based on Convolutional Neural Network. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4415-4425.	4.9	26
121	Support Vector Regression-Based Downscaling for Intercalibration of Multiresolution Satellite Images. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1114-1123.	6.3	25
122	Land-Use Mapping for High-Spatial Resolution Remote Sensing Image Via Deep Learning: A Review. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5372-5391.	4.9	25
123	Soil erosion evaluation in a rapidly urbanizing city (Shenzhen, China) and implementation of spatial land-use optimization. Environmental Science and Pollution Research, 2015, 22, 4475-4490.	5.3	23
124	Precipitation variability in High Mountain Asia from multiple datasets and implication for water balance analysis in large lake basins. Global and Planetary Change, 2016, 145, 20-29.	3.5	23
125	Anthropogenic and meteorological drivers of 1980â€"2016 trend in aerosol optical and radiative properties over the Yangtze River Basin. Atmospheric Environment, 2020, 223, 117188.	4.1	23
126	Improving Landsat ETM+ Urban Area Mapping via Spatial and Angular Fusion With MISR Multi-Angle Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 101-109.	4.9	22

#	Article	IF	Citations
127	Improving spatiotemporal reflectance fusion using image inpainting and steering kernel regression techniques. International Journal of Remote Sensing, 2017, 38, 706-727.	2.9	22
128	Pareto law-based regional inequality analysis of PM2.5 air pollution and economic development in China. Journal of Environmental Management, 2019, 252, 109635.	7.8	22
129	Hand in hand evolution of boson heat capacity anomaly and slow β-relaxation in La-based metallic glasses. Acta Materialia, 2016, 110, 73-83.	7.9	21
130	Spatiotemporal Varying Effects of Built Environment on Taxi and Ride-Hailing Ridership in New York City. ISPRS International Journal of Geo-Information, 2020, 9, 475.	2.9	21
131	The impact of urbanization on air stagnation: Shenzhen as case study. Science of the Total Environment, 2019, 664, 347-362.	8.0	20
132	Dynamic Modelling and Visualization on the Internet. Transactions in GIS, 2001, 5, 131-139.	2.3	19
133	Projection of Land Use Change Patterns using Kernel Logistic Regression. Photogrammetric Engineering and Remote Sensing, 2009, 75, 971-979.	0.6	19
134	Impacts of booming economic growth and urbanization on carbon dioxide emissions in Chinese megalopolises over 1985â€"2010: an index decomposition analysis. Energy Efficiency, 2018, 11, 203-223.	2.8	19
135	Surface response and subsurface features during the restriction of groundwater exploitation in Suzhou (China) inferred from decadal SAR interferometry. Remote Sensing of Environment, 2021, 256, 112327.	11.0	19
136	A resource limited artificial immune system algorithm for supervised classification of multi/hyperâ€'spectral remote sensing imagery. International Journal of Remote Sensing, 2007, 28, 1665-1686.	2.9	18
137	Assessing local resilience to typhoon disasters: A case study in Nansha, Guangzhou. PLoS ONE, 2018, 13, e0190701.	2.5	18
138	Revealing Implicit Assumptions of the Component Substitution Pansharpening Methods. Remote Sensing, 2017, 9, 443.	4.0	17
139	Sentinel-2A Image Fusion Using a Machine Learning Approach. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 9589-9601.	6.3	17
140	A novel method for planning a staged evacuation. Journal of Systems Science and Complexity, 2012, 25, 1093-1107.	2.8	16
141	Measuring Recovery to Build up Metrics of Flood Resilience Based on Pollutant Discharge Data: A Case Study in East China. Water (Switzerland), 2017, 9, 619.	2.7	16
142	Spatial Multi-Objective Land Use Optimization toward Livability Based on Boundary-Based Genetic Algorithm: A Case Study in Singapore. ISPRS International Journal of Geo-Information, 2020, 9, 40.	2.9	16
143	Research Article: An object model with parametric polymorphism for dynamic segmentation. International Journal of Geographical Information Science, 2003, 17, 343-360.	4.8	15
144	A Fast Level Set Method for Synthetic Aperture Radar Ocean Image Segmentation. Sensors, 2009, 9, 814-829.	3.8	15

#	Article	IF	Citations
145	Fine Land Cover Classification Using Daily Synthetic Landsat-Like Images at 15-m Resolution. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 2359-2363.	3.1	15
146	Improving the Spatial Resolution of FY-3 Microwave Radiation Imager via Fusion With FY-3/MERSI. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3055-3063.	4.9	15
147	Assessing the effect of fisheries development on aquatic vegetation using GIS. Aquatic Botany, 2002, 73, 187-199.	1.6	14
148	Environmental simulation within a virtual environment. ISPRS Journal of Photogrammetry and Remote Sensing, 2004, 59, 73-84.	11.1	14
149	Spatial and temporal classification of synthetic satellite imagery: land cover mapping and accuracy validation. Geo-Spatial Information Science, 2014, 17, 1-7.	5.3	14
150	Impact of Housing and Community Conditions on Multidimensional Health among Middle- and Low-Income Groups in Hong Kong. International Journal of Environmental Research and Public Health, 2018, 15, 1132.	2.6	14
151	Estimation and Analysis of the Nighttime PM2.5 Concentration Based on LJ1-01 Images: A Case Study in the Pearl River Delta Urban Agglomeration of China. Remote Sensing, 2021, 13, 3405.	4.0	14
152	Evolution of local densities during shear banding in Zr-based metallic glass micropillars. Acta Materialia, 2022, 235, 118068.	7.9	14
153	Climate-Conscious Urban Growth Mitigates Urban Warming: Evidence from Shenzhen, China. Environmental Science & Technology, 2019, 53, 11960-11968.	10.0	13
154	Real-World DEM Super-Resolution Based on Generative Adversarial Networks for Improving InSAR Topographic Phase Simulation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 8373-8385.	4.9	13
155	Spatiotemporal Exploration of Chinese Spring Festival Population Flow Patterns and Their Determinants Based on Spatial Interaction Model. ISPRS International Journal of Geo-Information, 2020, 9, 670.	2.9	12
156	Influence of short- to medium-range electronic and atomic structure on secondary relaxations in metallic glasses. Acta Materialia, 2020, 196, 88-100.	7.9	12
157	Mobile Navigation Guide for the Visually Disabled. Transportation Research Record, 2004, 1885, 28-34.	1.9	11
158	Multiobjective Optimization for Hazardous Materials Transportation. Transportation Research Record, 2005, 1906, 64-73.	1.9	11
159	Reimagining City Configuration. , 2020, , .		11
160	GIS-ABP model for HAZMAT routing with security considerations. , 0, , .		10
161	Stringent Nonpharmaceutical Interventions Are Crucial for Curbing COVID-19 Transmission in the Course of Vaccination: A Case Study of South and Southeast Asian Countries. Healthcare (Switzerland), 2021, 9, 1292.	2.0	10
162	Using the Ant Algorithm to Derive Pareto Fronts for Multiobjective Siting of Emergency Service Facilities. Transportation Research Record, 2005, 1935, 120-129.	1.9	10

#	Article	IF	Citations
163	A Spatial Indexing Approach for High Performance Location Based Services. Journal of Navigation, 2007, 60, 83-93.	1.7	9
164	Allocating Emergency Service Vehicles to Serve Critical Transportation Infrastructures. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2008, 12, 38-49.	4.2	9
165	Modeling urban growth by the use of a multiobjective optimization approach: Environmental and economic issues for the Yangtze watershed, China. Environmental Science and Pollution Research, 2014, 21, 13027-13042.	5.3	9
166	Delineation of Built-Up Areas from Very High-Resolution Satellite Imagery Using Multi-Scale Textures and Spatial Dependence. Remote Sensing, 2018, 10, 1596.	4.0	9
167	An adaptive compromise programming method for multi-objective path optimization. Journal of Geographical Systems, 2013, 15, 211-228.	3.1	8
168	An Evaluation of Four MODIS Collection 6 Aerosol Products in a Humid Subtropical Region. Remote Sensing, 2017, 9, 1173.	4.0	8
169	Fusion of Change Vector Analysis in Posterior Probability Space and Postclassification Comparison for Change Detection from Multispectral Remote Sensing Data. Remote Sensing, 2019, 11, 1511.	4.0	8
170	Potential of Using Phase Correlation in Distributed Scatterer InSAR Applied to Built Scenarios. Remote Sensing, 2020, 12, 686.	4.0	8
171	Characterizing the complex influence of the urban built environment on the dynamic population distribution of Shenzhen, China, using geographically and temporally weighted regression. Environment and Planning B: Urban Analytics and City Science, 2021, 48, 1445-1462.	2.0	8
172	Spatiotemporal Data Model and Query Language for Tracking Land Use Change. Transportation Research Record, 2005, 1902, 107-113.	1.9	8
173	Economic Value of Vaccines to Address the COVID-19 Pandemic in Hong Kong: A Cost-Effectiveness Analysis. Vaccines, 2022, 10, 495.	4.4	8
174	Texture Feature Fusion with Neighborhood Oscillating Tabu Search for High Resolution Image Classification. Photogrammetric Engineering and Remote Sensing, 2008, 74, 323-331.	0.6	7
175	A spatiotemporal satellite image fusion model with autoregressive error correction (AREC). International Journal of Remote Sensing, 2018, 39, 6731-6756.	2.9	7
176	Model evaluation of high-resolution urban climate simulations: using the WRF/Noah LSM/SLUCM model (Version 3.7.1) as a case study. Geoscientific Model Development, 2019, 12, 4571-4584.	3.6	7
177	Construction of the Scale-Specific Resilience Index to Facilitate Multiscale Decision Making in Disaster Management: A Case Study of the 2015 Nepal Earthquake. Social Indicators Research, 2020, 148, 189-223.	2.7	7
178	Unusually thick shear-softening surface of micrometer-size metallic glasses. Innovation(China), 2021, 2, 100106.	9.1	7
179	Evaluating national and subnational CO2 mitigation goals in China's thirteenth five-year plan from satellite observations. Environment International, 2021, 156, 106771.	10.0	7
180	Design of a Query Language for Accessing Spatial Analysis in the Web Environment. GeoInformatica, 1999, 3, 165-183.	2.7	6

#	Article	IF	Citations
181	Developing Location-Aware Navigation Guides That Use Mobile Geographic Information Systems. Transportation Research Record, 2004, 1879, 108-113.	1.9	6
182	Pattern Matching for Heterogeneous Geodata Sources Using Attributed Relational Graph and Probabilistic Relaxation. Photogrammetric Engineering and Remote Sensing, 2007, 73, 663-670.	0.6	6
183	A Level Set Filter for Speckle Reduction in SAR Images. Eurasip Journal on Advances in Signal Processing, 2010, 2010, .	1.7	6
184	Multimodal, multicriteria dynamic route choice: a GIS-microscopic traffic simulation approach. Annals of GIS, 2011, 17, 173-187.	3.1	6
185	Temperature Effect on Fracture of a Zr-Based Bulk Metallic Glass. Materials, 2020, 13, 2391.	2.9	6
186	Built Environment and Physical Activity among Adults in Hong Kong: Role of Public Leisure Facilities and Street Centrality. Land, 2022, 11, 243.	2.9	6
187	Unmixing-Based Spatiotemporal Image Fusion Accounting for Complex Land Cover Changes. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	6.3	6
188	Spatiotemporal Object Database Approach to Dynamic Segmentation. Transportation Research Record, 2003, 1836, 118-125.	1.9	5
189	Visualizing Massive Terrain with Transportation Infrastructure by Using Continuous Level of Detail. Transportation Research Record, 2004, 1899, 175-180.	1.9	5
190	Dynamic accessibility analysis in location-based service using an incremental parallel algorithm. Environment and Planning B: Planning and Design, 2008, 35, 831-846.	1.7	5
191	Intermodality models in pan-sharpening: analysis based on remote sensing physics. International Journal of Remote Sensing, 2014, 35, 515-531.	2.9	5
192	Spatial optimization for land use planning: Opportunities and challenges. Transactions in GIS, 2019, 23, 641-644.	2.3	5
193	Automatic Extraction of Built-Up Areas from Very High-Resolution Satellite Imagery Using Patch-Level Spatial Features and Gestalt Laws of Perceptual Grouping. Remote Sensing, 2019, 11, 3022.	4.0	5
194	Urban Spatial Organization, Multifractals, and Evolutionary Patterns in Large Cities. Annals of the American Association of Geographers, 2021, 111, 1539-1558.	2.2	5
195	A sparse representation-based fusion model for improving daily MODIS C6.1 aerosol products on a 3 km grid. International Journal of Remote Sensing, 2021, 42, 1077-1095.	2.9	5
196	Building Function Mapping Using Multisource Geospatial Big Data: A Case Study in Shenzhen, China. Remote Sensing, 2021, 13, 4751.	4.0	5
197	Evaluation and Analysis of Poverty-Stricken Counties under the Framework of the UN Sustainable Development Goals: A Case Study of Hunan Province, China. Remote Sensing, 2021, 13, 4778.	4.0	5
198	Estimating High-Resolution PM2.5 Concentrations by Fusing Satellite AOD and Smartphone Photographs Using a Convolutional Neural Network and Ensemble Learning. Remote Sensing, 2022, 14, 1515.	4.0	5

#	Article	IF	Citations
199	Pavement-Distress Data Collection System Based on Mobile Geographic Information System. Transportation Research Record, 2004, 1889, 54-62.	1.9	4
200	Scale conversion of multi sensor remote sensing image using single frame super resolution technology. , 2011, , .		4
201	Comparison of three time-series NDVI reconstruction methods based on TIMESAT. , 2012, , .		4
202	Population exposure to heatwaves in Shenzhen based on mobile phone location data. Progress in Geography, 2020, 39, 231-242.	0.7	4
203	Prediction of urban land use evolution using temporal remote sensing data analysis and a spatial logistic model. , 2010, , .		3
204	Using satellite data to estimate particulate air quality in a subtropical city: an evaluation of accuracy and sampling issues. Remote Sensing Letters, 2015, 6, 370-379.	1.4	3
205	Estimating spatial logistic model: A deterministic approach or a heuristic approach?. Information Sciences, 2016, 330, 358-369.	6.9	3
206	Integrating modis and MTSAT-2 to generate high spatial-temporal-spectral resolution imagery for real-time air quality monitoring. , 2017, , .		3
207	GIS-Based Accessibility Analysis of Health-Care Facilities: A Case Study in Hong Kong. , 2018, , 402-410.		3
208	Tension-Tension Fatigue Behavior of High-Toughness Zr61Ti2Cu25Al12 Bulk Metallic Glass. Materials, 2021, 14, 2815.	2.9	3
209	Restructuring the SQL Framework for Spatial Queries. Annals of GIS, 1997, 3, 42-50.	3.1	2
210	Spatio -temporal information integration in XML. , 0, , .		2
211	Mobile GIS with Enhanced Performance for Pavement Distress Data Collection and Management. Photogrammetric Engineering and Remote Sensing, 2005, 71, 443-451.	0.6	2
212	Constucting a unified framework for multi-source remotely sensed data fusion. , 2016, , .		2
213	High spatiotemporal resolution PM2.5 concentration estimation with satellite and ground observations: A case study in New York City. , 2018, , .		2
214	Strong and Ductile Electroplated Heterogeneous Bulk Nanostructured Nickel. Materials, 2019, 12, 1573.	2.9	2
215	Design and implementation of virtual environments for planning and building sustainable railway transit systems. WIT Transactions on the Built Environment, 2006, , .	0.0	2
216	Extraction of Aerosol Optical Extinction Properties From a Smartphone Photograph to Measure Visibility. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	2

#	Article	IF	Citations
217	Public Rental Housing and Obesogenic Behaviors among Adults in Hong Kong: Mediator Role of Food and Physical Activity Environment. International Journal of Environmental Research and Public Health, 2022, 19, 2960.	2.6	2
218	Measuring PM2.5 Concentrations from a Single Smartphone Photograph. Remote Sensing, 2022, 14, 2572.	4.0	2
219	A criteria-based approach for selecting touring paths using GIS & GA. , 0, , .		1
220	Real-Time Environmental Visualization with Web3D. Transportation Research Record, 2004, 1899, 181-187.	1.9	1
221	A Digital Framework to Predict the Sunshine Requirements of Landscape Plants. Applied Sciences (Switzerland), 2021, 11, 2098.	2.5	1
222	Spatio-Temporal Object Modeling. , 2009, , 137-143.		1
223	Assessment and Improvement of Urban Resilience to Flooding at a Subdistrict Level Using Multi-Source Geospatial Data: Jakarta as a Case Study. Remote Sensing, 2022, 14, 2010.	4.0	1
224	An ODMG-based object model for dynamic segmentation. , 0, , .		0
225	GIS-Based Model for Incident Response Units Dispatching. , 2004, , 148.		0
226	A Bi-level Programming Approach to Optimizing a Logistic Distribution Network with Balanced Workload. , 2004, , 78.		0
227	Integrating Heterogeneous Traveler Information Using Web Services. Annals of GIS, 2005, 11, 50-60.	3.1	0
228	Using projection pursuit learning network architecture to detect land use changes. , 2008, , .		0
229	Improved ant colony optimization for multi-objective route planning of dangerous goods. , 2012, , .		0
230	A Two-step Spatio-Temporal satellite image Fusion Model for temporal changes of various LULC under one-pair prior images scenario. , 2016, , .		0
231	A Local Spatial Kriging Applied to the PM2.5 Concentration Estimation. Lecture Notes in Computer Science, 2021, , 205-221.	1.3	0
232	Retrieval of Heterogeneous Geographical Information Using Concept Brokering and Upper Level Ontology. Lecture Notes in Computer Science, 2004, , 172-183.	1.3	0
233	Virtual Environments for Geospatial Applications. , 2009, , 320-331.		0
234	A NEW SPATIAL AND TEMPORAL FUSION MODEL. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 0, III-7, 203-206.	0.0	0

#	ARTICLE	IF	CITATIONS
235	Modeling Environmental Process Using Semantic Geospatial Web Service. , 2007, , 137-147.		0
236	Influence of magnetic interaction on configurational-entropy-suppressed β-relaxations in FeNi-based metallic glasses. AIP Advances, 2022, 12, 065304.	1.3	0